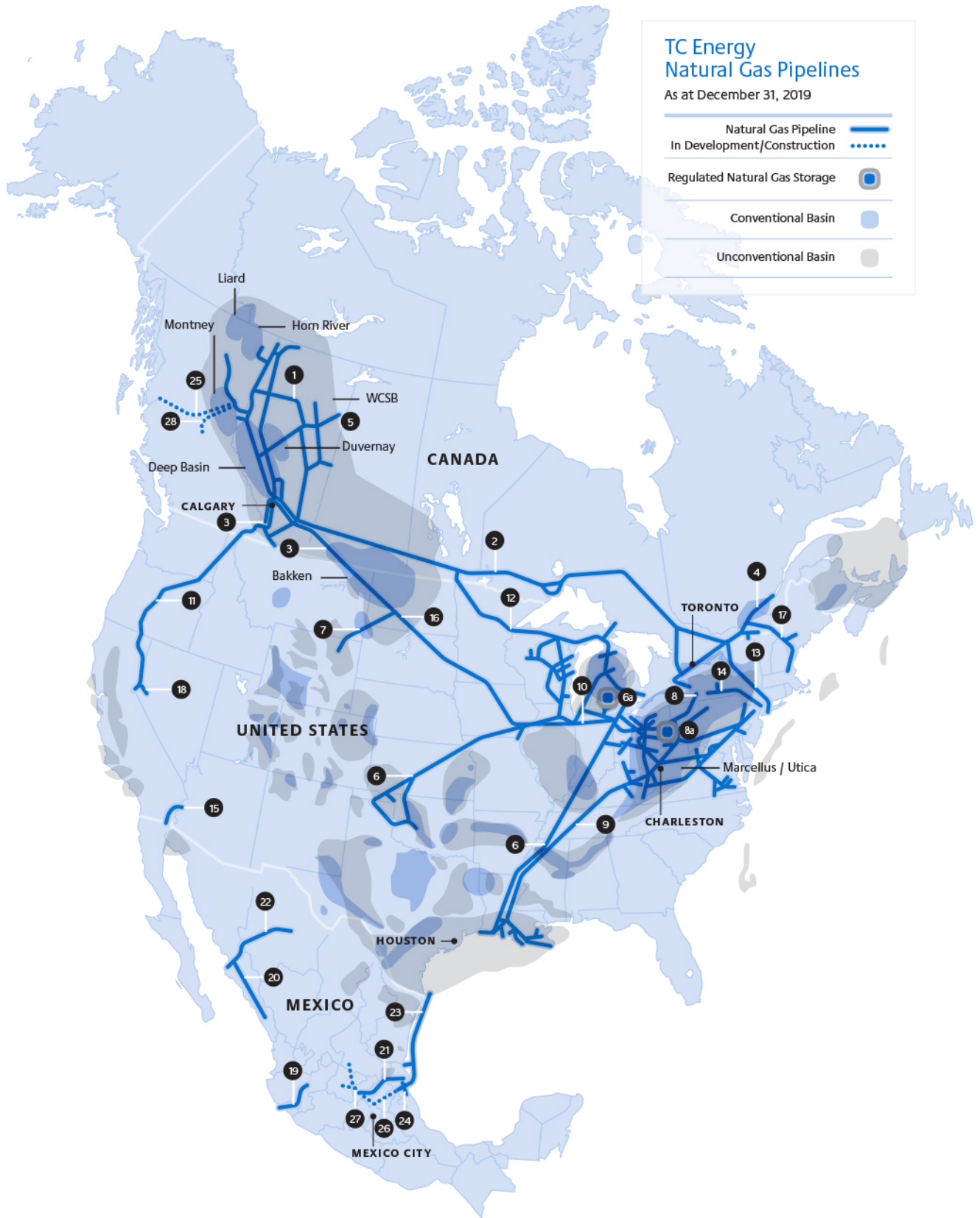
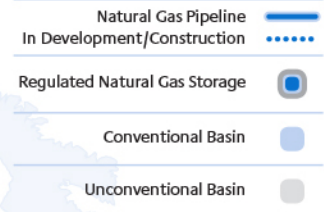


TC Energy Natural Gas Pipelines

As at December 31, 2019



We are the operator of all of the following natural gas pipelines and regulated natural gas storage assets except for Iroquois.

		Length	Description	Effective ownership
Canadian pipelines				
1	NGTL System	24,575 km (15,270 miles)	Receives, transports and delivers natural gas within Alberta and B.C., and connects with the Canadian Mainline, Foothills system and third-party pipelines.	100%
2	Canadian Mainline	14,082 km (8,750 miles)	Transports natural gas from the Alberta/Saskatchewan border and the Ontario/U.S. border to serve eastern Canada and interconnects to the U.S.	100%
3	Foothills	1,234 km (767 miles)	Transports natural gas from central Alberta to the U.S. border for export to the U.S. Midwest, Pacific Northwest, California and Nevada.	100%
4	Trans Québec & Maritimes (TQM)	574 km (357 miles)	Connects with the Canadian Mainline near the Ontario/Québec border to transport natural gas to the Montréal to Québec City corridor, and interconnects with the Portland pipeline system.	50%
5	Ventures LP	133 km (83 miles)	Transports natural gas to the oil sands region near Fort McMurray, Alberta.	100%
	Great Lakes Canada ¹	60 km (37 miles)	Transports natural gas from the Great Lakes system in the U.S. to a point near Dawn, Ontario through a connection at the U.S. border underneath the St. Clair River.	100%
U.S. pipelines and gas storage assets				
6	ANR	15,075 km (9,367 miles)	Transports natural gas from various supply basins to markets throughout the U.S. Midwest and U.S. Gulf Coast.	100%
6a	ANR Storage	250 Bcf	Provides regulated underground natural gas storage service from several facilities (not all shown) to customers in key mid-western markets.	
7	Bison	488 km (303 miles)	Transports natural gas from the Powder River basin in Wyoming to Northern Border in North Dakota. We effectively own 25.5 per cent of the system through our interest in TC PipeLines, LP.	25.5%
8	Columbia Gas	18,710 km (11,626 miles)	Transports natural gas primarily from the Appalachian basin to markets and pipeline interconnects throughout the U.S. Northeast, Midwest and Atlantic regions.	100%
8a	Columbia Storage	285 Bcf	Provides regulated underground natural gas storage service from several facilities (not all shown) to customers in key eastern markets. We also own a 50 per cent interest in the 12 Bcf Hardy Storage facility.	100%
9	Columbia Gulf	5,419 km (3,367 miles)	Transports natural gas to various markets and pipeline interconnects in the southern U.S. and U.S. Gulf Coast.	100%
10	Crossroads	325 km (202 miles)	Interstate natural gas pipeline operating in Indiana and Ohio with multiple interconnects to other pipelines.	100%
11	Gas Transmission Northwest (GTN)	2,216 km (1,377 miles)	Transports WCSB and Rockies natural gas to Washington, Oregon and California. Connects with Tuscarora and Foothills. We effectively own 25.5 per cent of the system through our interest in TC PipeLines, LP.	25.5%
12	Great Lakes	3,404 km (2,115 miles)	Connects with the Canadian Mainline near Emerson, Manitoba and to Great Lakes Canada near St Clair, Ontario, plus interconnects with ANR at Crystal Falls and Farwell in Michigan, to transport natural gas to eastern Canada and the U.S. Midwest. We effectively own 65.4 per cent of the system through the combination of our 53.6 per cent direct ownership interest and our 25.5 per cent interest in TC PipeLines, LP.	65.4%

	Length	Description	Effective ownership
13 Iroquois	669 km (416 miles)	Connects with the Canadian Mainline and serves markets in New York. We effectively own 13.2 per cent of the system through a 0.7 per cent direct ownership and our 25.5 per cent interest in TC PipeLines, LP.	13.2%
14 Millennium	407 km (253 miles)	Transports natural gas primarily sourced from the Marcellus shale play to markets across southern New York and the lower Hudson Valley, as well as to New York City through its pipeline interconnections.	47.5%
15 North Baja	138 km (86 miles)	Transports natural gas between Arizona and California and connects with a third-party pipeline on the California/Mexico border. We effectively own 25.5 per cent of the system through our interest in TC PipeLines, LP.	25.5%
16 Northern Border	2,272 km (1,412 miles)	Transports WCSB, Bakken and Rockies natural gas from connections with Foothills and Bison to U.S. Midwest markets. We effectively own 12.7 per cent of the system through our 25.5 per cent interest in TC PipeLines, LP.	12.7%
17 Portland	475 km (295 miles)	Connects with TQM near East Hereford, Québec to deliver natural gas to customers in the U.S. Northeast and Canadian Maritimes. We effectively own 15.7 per cent of the system through our 25.5 per cent interest in TC PipeLines, LP.	15.7%
18 Tuscarora	491 km (305 miles)	Transports natural gas from GTN at Malin, Oregon to markets in northeastern California and northwestern Nevada. We effectively own 25.5 per cent of the system through our interest in TC PipeLines, LP.	25.5%
Mexico pipelines			
19 Guadalajara	313 km (194 miles)	Transports natural gas from Manzanillo, Colima to Guadalajara, Jalisco. A full bi-directional modification is currently under construction.	100%
20 Mazatlán	430 km (267 miles)	Transports natural gas from El Oro to Mazatlán, Sinaloa and connects to the Topolobampo Pipeline at El Oro, Sinaloa.	100%
21 Tamazunchale	370 km (230 miles)	Transports natural gas from Naranjos, Veracruz to Tamazunchale, San Luis Potosi and on to El Sauz, Querétaro in central Mexico.	100%
22 Topolobampo	572 km (355 miles)	Transports natural gas to El Oro, Sinaloa and Topolobampo, Sinaloa, from interconnects with third-party pipelines in El Encino, Chihuahua, and El Oro, Sinaloa.	100%
23 Sur de Texas	770 km (478 miles)	Offshore pipeline that transports natural gas from the Mexican border near Brownsville, Texas, to power plants in Altamira, Tamaulipas and Tuxpan, Veracruz, where it interconnects with the Tamazunchale and Tula pipelines and other third-party facilities.	60%
24 Tula - East Section	48 km (30 miles)	The East Section of the Tula pipeline transports natural gas from Sur de Texas to power plants in Tuxpan, Veracruz.	100%
Under construction²			
Canadian pipelines			
North Montney ^{1,3}	206 km (128 miles)	An extension of the NGTL System to receive natural gas from the North Montney gas producing region and connect to NGTL's existing Groundbirch Mainline.	100%
NGTL System 2020 Facilities ¹	149 km (93 miles)	An expansion program on the NGTL System including multiple pipeline projects and compression additions with in-service dates expected by April, June and November 2020.	100%
25 Coastal GasLink ⁴	670 km (416 miles)	A greenfield project to deliver natural gas from the Montney gas producing region to LNG Canada's liquefaction facility under construction near Kitimat, B.C.	100%

Under construction² (continued)	Length	Description	Effective ownership
U.S. pipelines			
Buckeye XPress	103 km (64 miles)	A Columbia Gas project designed to upgrade and replace existing pipeline and compression facilities in Ohio to transport incremental supply from the Marcellus and Utica shale plays to points along the system.	100%
Mexico pipelines			
26 Tula (excluding the Tula East Section)	276 km (171 miles)	In addition to the East Section already in service from Tuxpan, Veracruz, the pipeline will interconnect with Villa de Reyes at Tula, Hidalgo, to supply natural gas to CFE combined-cycle power generating facilities in central Mexico.	100%
27 Villa de Reyes	420 km (261 miles)	This bi-directional pipeline will transport natural gas to Tula, Hidalgo and Villa de Reyes, San Luis Potosí, connecting to the Tamazunchale and Tula pipelines, as well as other pipeline systems, and the Salamanca industrial complex in the state of Guanajuato.	100%
Permitting and pre-construction phase^{1,2}			
Canadian pipelines			
NGTL System 2021 Facilities	369 km (229 miles)	The 2021 NGTL Expansion Program including multiple pipeline projects and compression additions with in-service dates expected by November 2021, along with other facilities.	100%
NGTL System 2022 Facilities	170 km (106 miles)	The 2022 NGTL Expansion Program including multiple pipeline projects and compression additions with in-service dates expected by April 2022.	100%
NGTL System 2023 Facilities	277 km (172 miles)	The 2023 Expansion Program for the NGTL System and Foothills including multiple pipeline projects and compression additions with expected in-service dates in 2022 and 2023, along with other facilities.	100%
U.S. pipelines			
Louisiana XPress ⁵	n/a	An expansion project of Columbia Gulf through compressor station modifications and additions with interim in-service commencing in November 2019 and full in-service expected in 2022.	100%
Grand Chenier XPress ⁵	n/a	An expansion project of ANR Pipeline through compressor station modifications and additions with expected in-service commencing in 2021 and 2022.	100%
GTN XPress ⁵	n/a	An expansion project of GTN through compressor station modifications and additions with expected in-service commencing in 2022 and 2023.	25.5%
In development			
Canadian pipelines			
28 Merrick Mainline ²	260 km (161 miles)	A greenfield project to deliver natural gas from the NGTL System's existing Groundbirch Mainline near Dawson Creek, B.C. to its end point near Summit Lake, B.C.	100%
U.S. pipelines			
Alberta XPress ^{1,5}	n/a	An expansion project of ANR Pipeline through compressor station modifications and additions with expected in-service commencing in 2022.	100%
East Lateral XPress ^{1,5}	n/a	An expansion project on Columbia Gulf through compressor station modifications and additions with an expected in-service date of 2022.	100%

1 Facilities and some pipelines are not shown on the map.

2 Final pipe lengths are subject to change during construction and/or final design considerations.

3 182 km (113 miles) placed in service on January 31, 2020.

4 In December 2019, we entered into an agreement to sell a 65 per cent equity interest in Coastal GasLink to KKR and AIMCo.

5 Project includes compressor station modifications and additions with no additional pipe length.